

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1 – 20. (cancelled)

21. (previously presented) A production method of the laminated holographic medium comprising the steps of:

providing an identification information recording medium by combining a recording layer which has an exposed surface, a gap layer, a first core layer, a first diffraction grating layer for recording data and a first cladding layer;

recording information data on the recording layer in a form of a recording mark transmittance or non-transmittance of light indicating the information data in accordance with a presence of a hole or a degree of transmittance of the light;

providing a ROM type recording medium by combining a second cladding layer, a second core layer and a second diffraction grating layer; and

combining the identification information recording medium and the ROM type recording medium.

22 – 25. (cancelled)

26. (withdrawn) A laminated holographic medium of a laminated holographic memory system, wherein

the laminated holographic memory system includes:

the laminated holographic medium comprising;

a core layer to which an incident light comes in; and

a diffraction grating layer that is formed by converting a form or a refractive index distribution and from which a reproduction beam goes out; and comprises

a reproduction apparatus that radiates the incident light and detects the reproduction beam, and

a recording layer that comprises a recording mark that is provided at a position that is transformed in accordance with a predetermined regulation and based on a presence of brightness/darkness and a position of the reproduction beam radiated on the reproduction apparatus determined beforehand, and that expresses information by a presence of a hole that transmits or shades light or by a degree of transmittance of the reproduction beam; and

a diffraction grating layer for recording data that is formed to reproduce the presence and a position of the recording mark on a recording layer corresponding to the presence of brightness/darkness and the position of the reproduction beam determined beforehand on the reproduction apparatus.

27 – 31. (cancelled)

32. (previously presented) An authentication sheet production method comprising steps of:

providing an identification information recording medium by combining a recording layer which has an exposed surface, a gap layer, a first core layer, a first diffraction grating layer for recording data and a first cladding layer; and

recording information data on the recording layer in a form of a recording mark transmittance or non-transmittance of light indicating the information data in accordance with the presence of a hole or a degree of transmittance of the light;

33. (previously presented) An authentication sheet produced by using a production method according to claim 32.

34 – 37. (cancelled)

38. (previously presented) A laminated holographic medium produced by using a production method according to claim 21.

39. (currently amended) A laminated holographic medium according to claim 38, further comprising: a reflection layer, wherein

the first diffraction grating layer, the recording layer and the ~~recording-reflection~~ layer are arranged in an order of the first diffraction grating layer, the recording layer and the reflection layer ~~such a sequence~~.